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Official Publication Of

PALO ALTO AMATEUR RADIO ASSOCIATION

PAARA

W6OTX

Affiliated

Palo Alto Amateur Clubs
Radio Ass'n

K6YQT

Menlo Park C-D
Radio Club

ORGANIZED FOR

PUBLIC SERVICE, SCIENTIFIC, EDUCATIONAL AND
SOCIAL BENEFITS TO AMATEUR RADIO OPERATORS.

A NON-PROFIT ORGANIZATION INCORPORATED 1956

Meetings held first friday each month (MOSTLY,
NEXT REGULAR MEETING EXCEPT

WHEN LONG
WEEKENDS COME UP

Date: Friday 9 July 1971

Place: Vets Memorial Bldg, 1455 Madison Ave., Redwood C.

PROGRAM: Amateur Television (ATV). Larry Reed

SLOW will give us a practical demonstration
SCAN! of an amateur TV operation. Together
-as used with Bill Jackson there will be a
on HF complete station set-up. DON'T MISS IT!
bands

Vol. XX

No. 7

July 1971

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OFFICERS

ADMINISTRATIVE

Pres: Andy Korsak, VE3FZK
V Pr: Bob Allen, W6WQD
Secty: Lee Zalaznik, WB6BJB
Tres: Vance Wardlow, W6FLE

APPOINTMENTS

VP PR: Jerry Starkey, WA6LIJ
CCRC Rep: Milt Donovan, W6MFN
CD Eqpt: Bob Allen, W6WQD
Asst " Glen Baker, W6UOK
TVI Com: Glen Baker, W6UOK

BOARD OF DIRECTORS

Chmn: Andy Korsak, VE3FZK
Secty: Lee Zalaznik, WB6BJB
Member Glen Baker, W6UOK
" Hal Moore, W6DEF
" Vance Wardlow, W6FLE
" Ed Fairbanks, W6AIN
" Gerry Laxson, W6OPA
" Clyde Griffin, WA6CBW

Editor: Vance Wardlow, W6FLE, phone 854 6064, PO Box 911 MP

SUPPORT YOUR CLUB

GET INVOLVED

PAY YOUR DUES

PARTICIPATE

BECOME A PARTICIPATOR

* * * * *

FUTURE PROGRAMS

By the time you receive this FIELD DAY will have come and gone ! ! ! If you didn't participate you can go to the corner and cry in your own beer ! ! We will have enough of the stuff to more than take care of the needed salt for our taste. At this point there is a lot of excitement in the air and a lot of plans for a real run at the money in the national competition. We have some REAL PARTICIPATORS.

Date: Sunday, 8 August: PICNIC - All Clubs participate. With Gene Sussli, WA6NVU, in there pitching and organizing it looks like a real BLAST ! ! Set this date aside for a real family affair. Also get that directional antenna in working order for the transmitter hunt.

Date: Friday 3 September: Andy Korsak is setting up a very interesting and instructive session on OSCAR. He will arrange for a complete review and updating.

JOIN THE CLUB

JOIN THE FUN

JOIN THE PARTICIPATORS

FIND NEW FRIENDS

MEET OLD FRIENDS

ENJOY LIFE

REPORT OF 4 JUNE MEETING

The meeting was opened by Gene Sussli, President of the San Carlos Civil Defense Club. Gene pointed out that Fred Heward, K6EER, is setting up to instruct those who want to go for an EXTRA license. He passed around a sign-up list and about 15 indicated some interest. Will be looking to Fred for reports on progress.

Lee Zalaznik, WB6BJB, gave a short run-down on his activities on the various bands each evening from the PAARA trailer in Menlo Park, inviting participation by all the peninsula hams. Lee is doing a fine job of making contacts and working up interest in nets for various reasons.

Larry Reed, W6CTH, president of SCARS, pointed out that a notice had been received that henceforth use of the Gold Room at the Vets Memorial Building would be charged to the Clubs at the rate of \$50 per evening. He and Dusty Doster, K6MPN, will look into the background of the notice and hopefully get the charge eliminated due to the Civil Defense aspects in connection with Redwood City C-D plans. In case the charge remains it may be possible to arrange for our meetings to be held in the Recreation Building of Menlo Park. Will just have to wait and see.

Next came Hal Moore, W6DEF,

3 asking for volunteers for the 4th of July parade to be held in Redwood City. By the time you read this the parade will be over and Hal will know just how many PARTICIPATORS we have in our outfit. More next issue.

Gene next introduced the speaker of the evening, Oliver Swan, W6KZK, designer, builder, salesman and promoter of the SWAN High-Gain Band Pass antenna.

Oliver went into the very smallest details of the research and development of their antenna. He gave us a real appreciation of the problems involved in such development and some extremely interesting details of what may be expected from a properly designed antenna.

He had slides to show the various antenna patterns both horizontally and vertically so it was clear just what he had developed and the reasoning behind the development phases of the antenna. He gave us some excellent tips on how to best design an antenna for specific purposes.

During the question and answer period he helped many of us resolve the problems which had somewhat baffled many of us.

Thanks Oliver for an excellent presentation and a very interesting evening from which we all gained much knowledge.

At several meetings of some of our most active members it has been noted that our regular meetings are not adequate to take care of the regular business of the Club. Fred Canham, W6QWF, suggested that a separate business meeting be held at the trailer with the Board of Directors present together with all the members who may be interested in the business affairs of the Club. It was generally agreed that the regular meetings are mostly taken up with social affairs and little time or inclination for business, thus the suggestion of a separate meeting.

Andy Korsak, VE3FZK, president of PAARA has therefore set up regular business meetings of the Club each Wednesday following the regular Friday meeting. These meetings will be held in the trailer at SRI. The Board of Directors will be there and all members are invited to attend.

If you have any project of idea you would like to put into action in the Club just attend the meetings. We will be able to make decisions on what direction the Club shall take in the future and what projects will be funded and supported by the Club.

We hope to see a good group of real PARTICIPATORS at each of these meetings. All of you members may be able to get more information on your Club by attending. Don't fail to make notes of what you want from the Club.

FOOTHILLS

In the last issue received of the FOOTPRINT from the FOOTHILLS Club we note that Jim Lomasne, WA6NIL, announced his resignation as editor of FOOTPRINT. Jim we want you to know we have really appreciated your long, hard and very effective work as editor, publisher and general sparkplug for the FOOTPRINT. We have enjoyed every issue, have struggled with the puzzles, sweat over the definitions and learned a lot from the informative articles.

FOOTHILLS will be hard pressed to find a replacement, Jim, and we wish the new editor all the luck in the world.

* * * * *

Have at hand a very nice letter from our friend Chuck Dean, WB6CZO, of the CITRUS BELT AMATEUR RADIO CLUB in San Bernadino regarding the excellent directory put out by he and his cohorts down there. It was a fine jon of coordination and cooperation by a dedicated group. The result is an excellent reference manual for that area.

Having read of Chucks job of getting it together I have decided it's just too much to tackle at this time. But some time in the future we may find the need and time to tackle the job. If so Chuck will have help a lot. THANKS

FIELD DAY

Just as certain as death and taxes Field Day did arrive and were we prepared/? ! * # = +
OF COURSE NOT ! ! ! ! !

Anyway we did make the preliminary effort to get a few of the antennas up and the second emergency power supply out of the trailer for a test!

Fred Canham, W6QWF, Chief Honcho for the operation has been running around like a big time vacuum cleaner gathering up parts here and pieces there, loading them on his trusty old car and then overhauling the whole smear. As result we had three 30 foot towers all ready to put up with guys and everything! He also broke out his camping gear and discovered one of the finest tents you ever saw for a Field Day operating station! Add the gasoline cans, water carriers and the thousand other things needed to support a field operation and you have some idea of what Fred has been doing for the past several weeks.

And it paid off! Lee Zalaznik, WB6BJB, was right in there pitching. He got at the trailer and really cleaned it out. There was more junk laying around the trailer site than a well equipped surplus supply yard normally has! Lee pulled and hauled and pushed and was finally able to get his own rig set up for operation. He got together with Gene Reynolds,

K6QOM, and they assembled and tested a three element beam just to be sure things were in working order. Anchor stakes, guy wire, balun and all the other requirements were assembled and made ready for the big day!

Came the weekend before the BIG day. Time to get the lay-out all set up. A work crew set a time and meeting place. Lee and Gene at the trailer, Fred, Les Vickery, W6AKR, with Ed Fairbanks, W6AIN, Vance Wardlow, W6FLE, Bob Allen, W6WQD, Andy Korsak, VE3FZK, Bob Allens son, Richard with a friend - a real working crew with a purpose all assembled at the FIELD DAY site. It was a dandy! Up on top of the hill where the old Sharron estate mansion was originally. A tremendous view of the bay and nice and clear all around.

Up we went and up went the masts and antennas! Les and Fred tackled the CW position while Lee and his crew took on the SSB position. Up with the masts! Fred had a dandy stepladder with a platform on top. Raising of the masts entailed getting a couple of the crew up on the platform then getting the first 20 foot section well guyed next to it. The men on top then extended the next two 20 foot sections, having first got the beam well attached to the top section. Of course the

FIELD DAY

expert "guy men" were right there on the job to keep the whole thing from falling apart!

Anchor stakes were driven and spaced correctly to assure that a big wind wouldn't tear up the whole operation. By noon of the 19th there was a fine antenna farm all layed out in Sharon Heights. Some of the residents were not sure they were not being invaded!

Next the power cables were strung out and "voila" we were prepared for the big event. Lots of dirt, lots of dust, lots of sweat and especially lots of satisfaction that we had a very good set-up to get into the competition.

All hands gathered at the home of Vance Wardlow for a review of progress - and a can of beer! The concensus was that we could make a showing this year. We tried to anticipate any problems that might occur. Jerry Starkey, WA6LIJ, was the real organizer in this department. He even thought to bring along some rags to tear into strips and hang on the guy wires! This in fact saved us from having a jeep run right into the guys of the CW setup! WOW when that thing came barreling up the hill we could all just visualize the whole antenna setup tangled all over his jeep! But the rags warned him in time and he swerved away! Gret thinking Jerry! He was also right in there with plans for the day when it arrived.

After a few beers and a lot of hot air we almost had ourselves convinced we could in fact make a decent showing on the BIG DAY! ! !

Richard Allen even found time to go on a snake hunt! We were all a little relieved he didn't show up at the house with a rattler!

CAME THE BIG DAY

Friday evening the crew assembled at the trailer. Glen Baker, W6UOK, brought along his trusty old Dodge with power enough to move the pentagon! Last minute moves of material and equipment were made, wires disconnected, the trailer set down on its wheels (Jerry had previously used his big high pressure air tank to inflate the tires). Hook-up was made and the caravan took off for the hills. All went smooth as silk. The trailer was placed in its position and the coax cables were run in. All set to go!

In the mean time Andy had gotten his 2 meter mast and directional antenna all set up. With a rotor all set to beam in on the weaker sigs and all preparations made to operate out of his camper set on the ground it looked like Andy was going to have a real fine station. Then tragedy struck. THE DARNED ROTOR WOULDN'T ROTATE! Andy climbed up and down that ladder at least a hundred times.

FIELD DAY

Andy also had a real high power 2 meter rig all set up with some very high priced equipment for the oscillator and power supply - but it didn't work! Darn! Oh well the rotor worked 3 years ago and the high power equipment was capable of working so lets just wait until next year! !

Andy and Lee ran a test on the hill on friday. All seemed to be in order and the signals were booming in - all set for the witching hour! !

Saturday morning bright and early Jerry Starkey was at the home of Oliver Wweningsen, WA6QGX, where we found Oliver Jr., recently home from Vietnam all set and ready to lend a hand. Turned to and got the big (5KW) power supply loaded into Glen Bakers trailer. Away to the operating site!

Got the generator going and all hooked up to the three operating positions. They were about 200 feet apart so it took some doing with the power cables! Fred had a volt-meter and frequency meter to assure that the power was at the proper voltage and freq. All set!

CAME THE DEADLINE HOUR OF 11
OCLOCK

Hit the mike - hammer the key - log the signals - make
POINTS

Everything went off like clockworks. Contacts galore and all the equipment working

like mad! (Except Andys rotor)

Just before air time we had a very pleasant surprise. A fellow ham from Ohio dropped in and made himself acquainted. Bob Dickson, W8ERD, sat in on the CW position and demonstrated his outstanding skill on the "bug". Bob really handled himself like a pro. Got in there and made contacts at a mile a minute. Fine work Bob.

From there on it was just a matter of who could stay on the circuit the longest! Lee started the SSB position and Andy was on the 2 meter setup.

Les Vickery had prepared a set of log sheets about 2 by 3 feet which had plenty of room to keep up with all the contacts made. They made it real easy to keep track of just who had been worked.

Operations continued through the night. Reliefs were worked out among the various teams. Oliver jr. came on at about 2 AM in time to keep Fred from falling off the chair! Lee stayed with it until he couldn't send his own name any more then took a relief for a couple of minutes to get his breath! Right back on the job!

It was A GREAT SUCCESS!

I have probably left out some name of the PARTICIPATORS but you can be sure they were there and batting a thousand! I'm not able to give scores at this point. Andy may have them in his section.

Sorry I won't be here for the review. HONOLULU CALLS.

To Our Advertisers

THANK YOU ALL

We appreciate your support of our Club. You have made it possible to continue publication of PARAGRAPHS. This paper has provided the essential means of communications to allow our Club to continue as a public and civic beneficial activity.

Our members appreciate your continued support and will reciprocate by patronizing your establishments.
Thanks again

Vance Wardlow
Editor
PARAGRAPHS.

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PALO ALTO AMATEUR RADIO ASSOCIATION
(PAARA)

BY-LAWS

FOR THE REGULATION, EXCEPT AS OTHERWISE PROVIDED BY STATUTE OR ITS ARTICLES OF INCORPORATION OF PALO ALTO AMATEUR RADIO ASSOCIATION, INC.

Article I. Members.

(a) The members of this corporation shall be divided into two classifications, namely active members and associate members. An active member shall be any person holding a valid amateur radio operators license. All other members shall be associate members. All members shall have full voting priveleges, but only active members shall hold office.

(b) Any prospective member may apply for membership at his first attended meeting. Applications for membership may be voted upon at this same meeting. A three-fourth's majority of the members present shall be required to elect an applicant to membership.

(c) Upon being elected to membership, the applicant shall pay a fee of \$1.00 and shall commence paying dues at the rate of \$4.00 per year. All dues shall become payable on January 1 for the ensuing year, and mambers elected to membership during the course of a year shall make a pro rata payment for the balance of the year. Upon said election and said payment, the applicant's name shall be inscribed in the membership book.

(d) Any member who fails to pay his dues for a period of three months shall, at the discretion of the Board of Directors, be dropped from membership book of the corporation.

Article II. Corporate powers.

The corporate powers of this corporation shall be vested in a Board of Directors, all of whom shall be members of this corporation in good standing. Four members of the Board of Directors shall constitute a quorum for the transaction of business.

Article III. Board of Directors.

The Board of Directors shall consist of the president and

HALT'S SPECIALTIES CO.

1690 PLYMOUTH AVE. MOUNTAIN VIEW

PHONE: 969 0510

SURPLUS ELECTRONIC TEST EQUIPMENT AND COMPONENTS

USED AMATEUR RADIO TRANSMITTERS AND RECEIVERS, CITIZEN BAND

THE LOWEST PRICES IN THE AREA

HOURS: 9 AM to 5 PM

CLOSED SUNDAY

WE WILL EXCHANGE EQUIPMENT WITH YOU - SELECT WHAT YOU NEED AND LETS DEAL !!!

WE ACCEPT ALL THE MAJOR CREDIT CARDS (OR CASH !!!)

DID YOU USE THAT 1/3 OFF COUPON LAST MONTH? IF NOT YOU HAD BETTER DO IT NOW

GET ON THE BALL!!!

WE HAVE WHOLE ROOMS FULL OF EXCELLENT EQUIPMENT THAT DEFIES DESCRIPTION! !

BY ALL MEANS DO NOT MISS OUR DISPLAY OF AMATEUR USED EQUIPMENT OF ALL KINDS.

OURS ARE THE LOWEST PRICES IN THE AREA

WE ARE CENTRALLY LOCATED - OFF THE BAYSHORE

TURN ON STIERLIN ROAD EAST TO PLYMOUTH AVE., TURN LEFTO THERE

TO

1690 PLYMOUTH AVE., MOUNTAIN VIEW

HOW MANY OF YOU HAVE LOOKED OVER OUR VERY EXTENSIVE SUPPLY OF ALL KINDS OF COMPONENTS AND MATERIAL IN THE YARD THAT MAY BE BOUGHT BY THE POUND? GET OUT THERE AND DIG OUT WHAT YOU HAVE BEEN LOOKING FOR ALL THESE MANY MONTHS. IF YOU NEED A CABINET FOR THAT EQUIPMENT YOU HAVE BEEN WORKING ON ALL THESE PAST MONTHS JUST TAKE A LOOK AROUND - WE HAVE A VERY FINE SELECTION OUT THERE. DRESS YOUR STATION UP AND MAKE IT LOOK REAL PROFESSIONAL. FIND THOSE STORAGE CABINETS YOU HAVE NEEDED FOR SO LONG OUT THERE IN THE GARAGE !!!

YOU WILL FIND IT ALL

AT

HALTED SPECIALTIES CO.,

1690 PLYMOUTH AVE., MT. VIEW

THE LANDMARK IS THE MOFFETT THEATRE JUST OFF THE BAYSHORE NEAR MOFFETT

OR

PHONE US FOR INFORMATION AT 969 0510

BY-LAWS, continued:

six directors chosen from the membership. The president shall be elected for a period of one year and the directors shall be elected for a period of two years at the regular annual meeting to be held on the first Friday of December of each year. Three directors shall be elected each year and in the event any director withdraws from the corporation, the balance of his term shall be filled by an appointment by the President. The following shall be initial directors with terms expiring on the dates shown:

<u>Name</u>	<u>Date</u>
Parker M. Robinson, Jr.	December 7, 1956
William T. Luebke	December 7, 1956
Eric Edberg	December 7, 1956
Richard A. Fisher	December 7, 1957
Robert J. Turner	December 1957
Robert G. Slick	December 1957

Article IV. Powers of Directors.

Regular meetings of the Board of Directors shall be held at the call of the President of, in his absence, the Vice-President, on such notice as is determined by the Board of Directors. Special meetings of the Board of Directors may be called by the President or Vice-President on twentyfour hours' notice to each Director, either personally or by mail or telephone.

The Directors shall have the power:

- (1) to have general charge of all interests of the organization;
- (2) the Directors shall consider and report at each meeting all proposals for the benefit of the individual members or the general welfare of the corporation;
- (3) the Board of Directors shall adopt ways and means for the advancement of the corporation, designate work to be done between meetings of the corporation, audit all accounts for expenses, direct the expenditure of funds of the corporation but not in excess of the amount held by the Treasurer.

Article V. Duties of the Directors.

It shall be the duty of the Directors to keep complete records of all their minutes and acts, and to present a full statement at the regular annual meeting of the members, showing in detail the assets and liabilities of the corporation and generally the condition of its affairs. (Contd Next issue)

SOUTHWEST ERN DIVISION

1971

convention

ARRL

Disneyland Hotel, Anaheim, Ca.

September 4 & 5

Preregistration closes 15 July

Mail your check to:

ARRL CONVENTION

c/o Legel W6KNE

1306 Sheppard Drive,

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XYL & Harmonics with banquet
and all Drawings . . . \$15.00

* * * * *

Have you sent in that
envelope for your QSL cards
that are waiting for delivery?

Send a 5 by seven envelope
self addressed and stamped
with your call in the upper
left corner to ARRL QSL Bur-
eau, Box 11, Los Altos, Ca.,
94022. The Northern Calif. DX
Club is doing all it can to
get you fellows informed of
the QSL's waiting there for
delivery. Get your envelope
in to the Bureau. They are
doing a fine job - now just
do a little for yourself! !

* * * * *

JOIN THE CLUB

DON'T MISS THE FUN - GET ON

THE BAND WAGON - PARTICIPATE

← Ha! Ha!

SEND \$4 TO P.O. BOX 911

MENLO PARK, CA. 94025

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Some of our members have
indicated they are pretty
well fed up on hearing about
Civil Defense! ! ! Well it
only takes one earthquake such
as the one in Los Angeles
recently to bring to mind the
very important part we hams
may play in such a disaster.

In the April QST, page 62,
(paraphrased) "The California
earthquake pointed out one
thing NOT to do in a real
emergency situation. DO NOT
SOLICIT the general public
for messages of inquiry. Esp-
ecially where publicity is
the principal objective. The
amateur facilities become so
jammed with these messages that
priority traffic is interfered
with, and in the end unfavor-
able publicity results. The
first priority is providing
communications to relieve
suffering.

And as always, listening
on the air is a virtue in
such an emergency."

HOW TRUE, HOW TRUE

A pest upon that ham who goes
on the air with a signal with-
out listening! ! !

Speaking of C-D - There is
some talk of just what we as
a Club with Civic responsib-
ilities should do about having
an emergency station ready to
go. The Board of Directors
would very much appreciate
comments regarding the best
way to provide this support.
Should we set up a first
class station in the trailer
and make it available to all
members? WHAT DO YOU THINK

TWC-METER PROJECT

By Andy Korsak

Murphy's Law defeated - Wearo back in competition! Signetics Corp. comes to the rescue!

Art Fury, WACJLJ, who has been giving lectures entitled "THE FABU-
TIOUS PHASE LOCKED LOOP" at all the local radio clubs lately and is also
featured at the San Jose convention, has offered the service of engineers
and circuit designers at Signetics to help us come up with a functional
and reproducible IF - Demodulator-Squelch p.c. board, in exchange for my
tackling some theoretical problems regarding phase-locked loops. In my last
trip over to their plant in Sunnyvale I saw how fast a bunch of good
designers can whack out a beautifully laid out p.c. board! Well, I guess
I'll design as self-appointed "engineer" and stick to my math problems
and let somebody better qualified design the tricky to get to work RF
circuitry which I've been having so many problems with.

The theoretical problem I have to work out for SIGNETICS, for any
of you that may be interested, concerns the lock-up time of p.l.l.
Apparently no one has ever worked out a formula for the range of lock-up
times of a p.l.l. under various signal to noise and other conditions. So
I am now spending some spare time solving complicated differential equa-
tions instead of tinkering with hardware.

AUSTRALIAN FM TRANSCEIVER CIRCUIT AND LAYOUT AVAILABLE

I have now received the full details from Cliff Wylie, VK2ZLW, on
the AUSTRALIS OSCAR motivated "CARPENTRY" I wrote about last month.
ANYBODY WANTING TO BUILD AN FM TRANSCEIVER, XTAL CONTROLLED, CAN BEGIN
NOW WITHOUT WAITING FOR COMPLETION OF OUR PROJECT.

I have now complete circuit diagrams p.c. board layouts and parts
information on what appears to be a very fine FM 2-meter transceiver. As
I said last month, this was the result of pooling circuit ideas out of
the AUSTRALIS OSCAR program and according to the articles on it in
"AMATEUR RADIO" it has fabulous features:

- 10 Watts output - uses 2 N5590 in p.a.
- 12 volt operation, all IC's in receiver except for front end
- double conversion, sharp filter at 10.7 MHz quadrature
detector at 455 KHz
- front end uses FET's, has two RF stages

Apparently this transceiver copies stations commercial ones can't
hear. Squelch is turned off at 0.2 microvolts input, which is pretty
good I understand.

JULY QST ARTICLES ON 2-M PORTABLE ANTENNA, PIP-SQUAWK" AND IC'S IN
FM CIRCUITS - DON'T MISS THEM.

Somebody beat us to the draw - there is a very simple to build 2-M
receiver circuit and p.c. board layout in July QST. Of course it won't
perform like our project receiver! But it's a lot cheaper, I'm sure.
The portable 2-M antenna on the cover is more complicated to build than

1845 2.15

Gene Sussli's design, demonstrated at the May meeting, but it ~~is~~ folds up into a smaller bag. The article on IC's in ham circuits is really excellent. I intend to compliment the author personally at the San Jose Convention (Cliff Buttschardt, WCHDC, told me he is giving a talk there.)

OSCAR NEWS

By Andy Korsak, VE3FZK/WG

Secretary-Treasurer of OSCAR, Inc.

Foot Hill College
✓ Los Altos

OSCAR will be assisting AMSAT in testing out a new 2-M to 10M repeater package planned to be flown in a satellite in the near future. This package is the same as the one that was tested by airplane flight over the east coast a while back, if you remember reading about it in QST. The package will be flown from L.A. to San Francisco, or probably Palo Alto airport if the board of directors of OSCAR have their way in late September. You won't need to track it, as contact will be kept on 40 and 6 with the plane and you can know exactly where it is. The idea will be to have as many Bay Area hams work through it as we can, so I am pushing it in our PAARA paper. Techs don't have to worry - there is special FCC approval to retransmit on 10. So polish up your 2-M gear and get ready for the big FLY-COVER OF SATELLITE PACKAGE LATE IN SEPTEMBER, SPONSORED BY ADHCC WEST COAST AMSAT TRANSPONDER AERONAUTICAL FLIGHT COMMITTEE, CHAIRED BY DR. NORMAN CHALFINK, K6PGX

SPECIAL QSL CARDS WILL BE PROVIDED

CALL OF PACKAGE IS W43NDS

40 METER LINK FOR PREPARATION DISCUSSIONS SET UP: By WCHDC (with KCGT) and WB3CUT 7290 KHz, 1000 PDT, till further notice every Tuesday EVENING ---- SO GET ON THE NET AND FIND OUT ALL ABOUT IT !!!!!!!!!!!!!

LATEST SOCCO ON FIELD DAY

By Andy Korsak, VE3FZK/WG

Those doggone San Carlos hams beat us to it folks. They racked up about 1450 contacts with C stations against our about 750 contacts with S stations (unofficial figures), so since the expected no. contacts/station is smaller for more stations, they have outdone us.

Thanks to all the helping hands - Bob Allen, W6WQD, took apart our 2-M VFC and fixed a coax connection that came loose (Murphy's law again, how come it didn't happen all year till then?) Hal Moore whacked away at the CW key till bleary eyed. I believe Vance mentioned all the other contributors in the article on earlier pages, so I will just say you guys did a great job and next year we'll shove those San Carlos people right off the air with our QRM from 15 stations breathing down their necks from Skyline!

16

WEDDING BELLS FOR OUR EDITOR!!!

I have been left with completing the paper and printing it, as our illustrious Editor-in-chief, Vance Wardlow, WCFLE, is GETTING MARRIED on July 4. Our HEARTIEST CONGRATULATIONS TO YOU, VANCE, AND ANNA! If you are reading this, then I obviously did not goof up the mimeograph machine of Lola and Steve Kaider's, having never used one before (Both Lola, WJUSE and Steve KETV, will be at the San Jose Convention when I have to run the machine.) Hope you had fun in

MORE ON FIELD DAY

Some news Vance didn't mention: Tragedy struck after we put up the 30 foot towers, one of them came drashing down and smashed an element of a Fred's beam. Probably some illegal motorcyclist ran into a guy wire since we found skid marks. There are signs all around the property - "NO TRESPASSING" - but you know as well as we how much that keeps them away! We had to round up the work party all over again on Sunday, June 21, to repair the beam and put it up again, this time not fully extended and tripple guyed.

I worked a station at Bass Lake with our W6TX "Gooney Bird," with the twin C-element beams I borrowed from Brian Westfall - a distance of 145 miles! I also worked Napa and Santa Rosa, I totalled about 70 contacts on 2, and I added about 20 more on 40 and 75 phone when 2 seemed to show no new faces.

Next year we plan to set up a ham TV link between the San Carlos and our FD sides, so we can look at each other's scenery (and stuck out tongues and other signs of healthy competition) (not to mention who can find the dirtiest picture to flash on the screen).

----- 00ooo00 -----

ADDED NEWS ON THE TWC-METER PROJECT

I am sorry, I forgot to mention that Bob Stein, W6NBI, built up a very fine prototype tunable converter for our project. It has dual gate MOSFETS in the RF and mixer stages and a JFET for the oscillator which he put above the 2-meter band to get away from aircraft band images. In spite of the higher than usual oscillator frequency, Bob made it stable enough to copy SSB on 2, which is pretty good for a tunable front end. Come and see it at the next meeting, along with the other things I will demonstrate like the SIGNETICS pc. board and AUSTRALIS OSCAR XCVR info.

MCBILE HAMS CRASH IN MENLO PARK!!!!!!!

Would you believe it - two mobiles on their way to work, both one block from their houses, crashed into one another and they did not even know the other guy was a neighbor when they exchanged driver's licenses!!! Boy, there must have been some loosened capacitors and whips wrapped up in knots around each other!! One of them is Gary, K6LWJ, who told me about it a SC, followed by an eyeball meeting, as

Sorry to hear that Bill Ray, W6KZF, was hospitalized in June. As editor and publisher of the CCRC CIRCLE paper Bill has been doing a bang up job. By the time this reaches his mail box we hope he will have defeated that ailment - whatever it was - and is back on his feet and the job again. Keep in there pitching Bill - we miss your fine publication work.

Must congratulate you on your fine choice of "fill-in" editor and publisher. Fine job, K6OJO. We all need the CCRC CIRCLE. Keep it coming!

* * * * *

Have just had an experience with a fish-tank warmer. My BC Band receiver was giving me a real bad time - especially whenever Willie Mays hit a home run when the Giants were loosing! ! It never failed to let out a burp that would have been greatly appreciated by Hamms or Budweiser but only made me chew my nails! Well after checking everything in the house and garage for loose connections and then doing a lot of fuming and stewing I called the PG&E. They provided fine service. Their man came out next day, surveyed the area and found a fishtank across the street and three dorrs away with a defective thermostate. Fixed it and PRESTO the Giants went into their JUNE SWOON! !

CAN'T WIN

But now the radio is fine.

More on FIELD DAY; Musn't forget to give a lot of credit to Mr. McDonald, of Sharon Heights Development Company. He was most cooperative in letting us use the site on the highest hill in the development. His general superintendent, Mr. Anthony Marchionna was very helpful and saw to it that we had ready access to the site without any problems whatsoever.

Our sincere thanks to both these gentlemen for their kindness in assisting in our Field Day and Civil Defense efforts.

We are sorry that the Palo Alto Times could not find room to publish our little notice of this National effort in support of the civic welfare of the community.

To the Menlo-Atherton RECORDER our thanks for the nice article on our effort. We do feel sincerely that our organization is capable of and more than willing to fully support our community in any problem area with respect to communications.

THANKS AGAIN RECORDER

* * * * *

DON'T FAIL TO JOIN THE CLUB

FOR FOUR BUCKS

YOU WILL NEVER GET MORE

WANTED TO BUY

John Ott, WB6VSW, recently got his general license. He is looking for a transceiver something like the SWAN 550 watt job.

If you have such an outfit for sale give him a call on 345 9714.

Had no items listed for sale this month. Any of you are eligible for a FREE ad any time. Just drop me a line at P.O. Box 911, Menlo Park, Ca. 94025. List your items and what you want for them. will get it into the next issue.

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THE SAN CARLOS BUGLE

SAN CARLOS RADIO CLUB REPORT

BY KEEER

One of the best meetings we have had for a long time was the recent one which featured Cliver Swan. His enthusiastic presentation on band pass antennas augmented by his charming projectionist gave us an evening I know I shall remember a long time. Mr. Swan was also most generous with his donation of one of his two meter band pass antennas.

All the "Head Shed Habitués" are firmly entrapped in unstrung field day antennas so they volunteered me for this job. I would like to mention that the "On the Air" radio class concept was not too well received by the C C R C members who felt that there would be too much QRM. We therefor have discussed the practicality of setting up a class in theory etc to ready us for the advanced and extra class licenses. I personally want to get my extra so I won't have to worry where I am on the bands. Our club will sponsor the course and we will probably have it down at the San Carlos Firehouse 2 location so as to allow blackboards and other aids as needed. This location is right next to the White Front Dept. Store on Industrial Road and will be easy to find as soon as the material can be gathered together we will arrange for a notice of a get together meeting to get matters all finalized. Those who indicated their interest at the last meeting will be notified by card. This will be a class where all the congregation will join in the preaching. Let me know your ideas so we can get things rolling, right after the vacation period

We now have twenty members with everyone a winner. This is one place where "live wires" are most welcome. I might also add that it is sure heart-warming to see a complete absence of the generation gap in our club.

Greg Garcia, WB6DAI, was just informed by the FCC that he had passed the advanced test - our youngest member - how's that for stirring up some "incentive"????? Greg said that the questions were not hard. Of course, there are no "hard" questions if you know the answers.

Field Day seemed to come off without too much smoke seen floating

off the hill. Judging from the activity on the band most participants ended up with a fat log and a flat final. It all got to me this year so next Field Day I am going to go RTTY Portable - that ought to start something.

Thanks for the use of the soap box and don't forget to bring a friend to your next club meeting. Remember too there is always room in the novice class for the newcomer to the craft.

FIELD DAY 1971

Our Club participated under the club call K6DKX/6 in the 6-station club classification, same as last year. However, this year all of our stations were operating barefoot to take advantage of the power multiplier of 2 for operating all stations at less than 200 watts throughout the contest. The results achieved were magnificent. Even though conditions were not as good as last year we were able to increase the number of contacts from 990 last year's to 1425 this year. Of course, we did not operate the full 24 hours allowed, because we took our pot-luck dinner break, which was a great success as always and we had the generator blow up on us about ~~700~~ 5:00 o'clock local time on Sunday morning. But I'm really proud of the good team effort which was put forth by everyone. No one had to struggle to put up a beam by himself, but everyone was in there pitching and all stations were erected in rotation. There was not one angry word spoken among all our 13 participants and this is a tremendous achievement considering the big difference of ages and the temptation by the teenagers to snatch a can of beer here and there so thanks to everyone for a very fine effort. This was the best field day ever. These are the final results and their station captains:

Station 1 :	20 Phone,	Bill Jackson W6OWC	- 319 contacts
Station 2 :	20 CW	, Larry Daily	- 167 contacts
Station 3 :	15 & 75 Phone,	Mark Cherry	- 325 contacts
Station 4 :	40 Phone,	Bill Burris	- 128'contacts
Station 5 :	2 & 6 Phone,	Mike Bach	- 89 contacts
Station 6 :	15, 40 & 30 CW,	Ken Keeler	- 337 contacts

P.S.

Gentlemen, we won our Tri-City contest as advertised. Redwood City is the big loser by forfeit and Palo Alto has given us a qualified concession. I understand that their 3-station setup has raked up about 700 contacts. However, Andy is still trying to figure a way to grade the results on a curve which would be more favorable to Palo Alto, but don't worry I also know how to adjust results, as long as I can pick the base. Andy, why not concede gracefully, there always is next year and besides your entry almost quadrupled last year's Palo Alto score.

73, Gene Sussli WA6NVU

Whatever happened to our Tri-City net on 10 meters? Please remember we still meet every Wednesday at 7:30 p.m. on 20, 625 kc. Give those couple of die-hards who stuck to it the last few weeks another voice to talk to. See you next Wednesday, ok?

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